

Addendum for Microsoft-Multiplan

Square Root (SQRT) Function

implemented on the TI-99/4A

If a square root is taken of a number less than one AND contains an odd number of zeros before the first significant digit (i.e. 0.01, 0.000123), Microsoft-Multiplan will calculate the square root incorrectly by a factor of ten. Currently SQRT(0.01) is calculated as 1.0 and SQRT(0.000123) is calculated as 0.110905.

In order to correctly calculate all values, an involved equation must be entered. The equation is too long to be entered into one cell, so two cells, one intermediate and one where the calculated value is to be displayed, must be used. The following steps should be followed carefully. The procedure may then be amended to individual spreadsheets.

1. Move cursor to R1C2, press '=' and enter:
INT(ABS(LOG10(RC[-1]+1E-10)))/2
Press ENTER.
2. Name this cell IC (intermediate cell) by pressing N, enter IC into 'define name' and press ENTER.
3. Move cursor to R2C1, press '=' and enter:
IF(OR(RC[-1]C>=1,INT(IC)=IC),SQRT(RC[-1]C),SQRT(RC[-1]C)/10)
Press ENTER.
4. Move cursor to R1C1 and enter the value of which the square root will be taken.

These steps will take the proper square root of all values greater than 1E-20. If values less than this are used, the value in step 1, 1E-10, should be changed to be within + or - 1E-10 of the value of which the square root will be taken.

Due to the complexity of these formulas, any questions on this matter should be addressed in writing to:

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MICROSOFT MULTIPLAN
BACKUP DISK INSTRUCTIONS

In order to make a backup disk for Multiplan using one disk drive you need either the Disk Manager or the Disk Manager 2 Command Module. The instructions are as follows:

- 1) Insert the Disk Manager or Disk Manager 2.
- 2) Press any key to begin.
- 3) Press "2" for Disk Manager.
- 4) Press "4" to SET ALL COMMANDS FOR SINGLE DISK PROCESSING.
- 5) Press "2" for DISK COMMANDS.
- 6) Press "2" for BACKUP DISK.
- 7) You should then receive the prompt: SELECTIVE (Y/N)? N
Press ENTER.
- 8) You should then receive the response: MASTER DISK (1-3) 1 (ENTER)
DISKNAME=TIMP
COPY DISK (1-3) 1
- 9) The next prompt you receive will appear at the bottom of the screen and will read LOAD COPY DISK. Insert the blank disk and press FCTN 6.
- 10) The next prompt is: DISK NOT INITIALIZED
INITIALIZE NEW DISK (Y/N) Y
Press ENTER.
- 11) Next you are asked for the NEW DISKNAME. For the Multiplan backup, the name MUST BE TIMP. This is because the master disk is named TIMP.
- 12) You should then receive the prompt: TRACKS PER SIDE? 40 (ENTER)
SINGLE SIDED (Y/N)? Y (ENTER)
SINGLE DENSITY (Y/N)? Y (ENTER)
- 13) You will then receive the message INITIALIZING NEW DISK
WORKINGPLEASE WAIT
Numbers will flash on the screen until the initialization is completed.
- 14) When the initialization is complete, you will receive the prompt, LOAD MASTER DISK. Do this and then press FCTN 6. You will continue to exchange the disks when prompted for approximately 10 to 15 minutes, using the FCTN 6 each time you insert a disk until you receive the message COMMAND COMPLETED.